

APRIL/MAY 2025

**CBC53/FBC53 — PHYSIOLOGY AND
NUTRITION**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define diastole.
2. What are the types of blood groups?
3. What do you know about oxyntic cells?
4. Name two bile salts.
5. Interpret the significance of artificial respiration.
6. Write the functions of tubules in nephron.
7. What do you understand by RDA?
8. Recall the meaning of protein sparing action of carbohydrates.
9. What do you infer from the term rickets?
10. Which is the chief intracellular cation?



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Analyze the various phases of ECG.

Or

- (b) Identify the composition of lymph.

12. (a) Deduce the enzymes involved in digestion.

Or

- (b) Examine the mechanism of HCL formation.

13. (a) Simplify the types of respiration

Or

- (b) Analyze the process of tubular reabsorption and secretion.

14. (a) Explain the significance of essential fatty acids.

Or

- (b) Analyze the rich sources of protein in diet.

15. (a) Appraise the sources, RDA and biochemical functions of Vitamin K.

Or

- (b) Assess the significance of magnesium in human body.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Examine the physiologic anatomy of heart.

17. Analyze the structure and functions of microvillus.

18. Illustrate the structure and functions of nephron.

19. Evaluate the protein deficiency disorders – Kwashiorkor and marasmus.

20. Elaborate on the biochemical function of folic acid.

